

TARGET DETECTION SYSTEM USING RADAR AND IMAGE PROCESSING

5

ABSTRACT OF THE DISCLOSURE

10 A target detection system using an EHF radar and the  
image processing is disclosed, in which the processing  
time is shortened by mutually complementing the  
disadvantages of the EHF radar and the image processing  
thereby to improve the reliability. The system comprises  
a radar, an image acquisition unit and an image  
processing ECU. The microcomputer of the ECU specifies  
15 an image recognition area based on the power output from  
the radar, and carries out the image processing only  
within the specified recognition area for the image  
obtained from the image acquisition unit. By performing  
the image processing only for the area where a target is  
20 detected by the radar, the time required for image  
processing is shortened on the one hand and the erroneous  
detection of letters on the road surface or the like is  
eliminated.